

In the claims:

1. (Currently Amended) A method of using a computer for processing customer interaction records within a customer interaction system including:

receiving an interaction record including interaction information describing a customer interaction, the computer to perform the receiving;

identifying a cumulative record to which the interaction record contributes based upon a content of the interaction record, the computer to perform the identifying, the cumulative record containing a plurality of modifiable entries associated with different data types;

the computer determining how a first entry of a plurality of entries of the cumulative record is to be modified to reflect the interaction information within the interaction record based upon a data operation associated with the first entry; and

modifying the cumulative record in accordance with the data operation to reflect the interaction information contained within the interaction record, the computer to perform the modifying.

2. (Original) The method of claim 1 wherein the identification of the cumulative record is made utilizing time information included within the interaction information of the interaction record.

3. (Original) The method of claim 1 wherein the identification of the cumulative record is made utilizing data type information included within the interaction information of the interaction record.

4. (Original) The method of claim 1 wherein the identification of the cumulative record is made utilizing source information identifying a customer interaction system on which the customer interaction described by the interaction information occurred.

5. (Currently Amended) The method of claim 1 wherein the identification of the cumulative record includes ~~constructing~~ providing a key, utilizing the interaction information, that is mapped to the cumulative record.

6. (Currently Amended) The method of claim 1 wherein the cumulative record is identified from among a plurality of cumulative records based upon a content of the interaction record, each of the plurality of cumulative records comprising a row of a result set that includes a plurality of columns, and wherein at least a first column specifying the data operation that determines how a cumulative record, including the entry corresponding to the first column is modified to reflect interaction information contained within an interaction record.

7. (Previously Presented) The method of claim 1 wherein the interaction information included within the interaction record comprises a plurality of information items, and the modifying of the cumulative record comprises performing the data operation with respect to processed information items included within the cumulative record, the processed information items corresponding to at least one information item included within the interaction record.

8. (Previously Presented) The method of claim 7, wherein the cumulative record comprises a plurality of processed information items, each of the processed information items being assigned to a respective column within a result set constituting a plurality of cumulative records, each of the respective columns of the result set having a respective data operation associated therewith.

9. (Previously Presented) The method of claim 8 wherein the data operation associated with the respective column comprises any one of a group of operations including a sum operation, a count operation operation, a copy operation, and a replace operation.

10. (Original) The method of claim 1 wherein the cumulative record contains interaction information derived from a plurality of interaction records for a predetermined

time period.

11. (Original) The method of claim 10 wherein the cumulative record is stored within a database as part of a summarization record of customer interactions over the predetermined time, the summarization record comprising a plurality of cumulative records.

12. (Currently Amended) The method of claim 1 wherein the interaction information includes any one of a group of information items comprising source, ~~data~~ date, time, call segment, response time, wait time, queue time, hold time and talk time.

13. (Original) The method of claim 1 wherein the customer interaction system comprises any one of a group of systems including an automatic call distributor, an e-mail server, a web server, a computer telephony integration server and an interactive voice response server.

14. (Currently Amended) A process that uses a computer for processing customer interaction records within a customer interaction system, of the process including:

a first process to receive an interaction record including interaction information describing a customer interaction and to identify [[ing]] a cumulative record to which the first record contributes based upon an

information content of the first record, wherein the cumulative record contains a plurality of modifiable entries each related to a different data type and at least a first entry of the cumulative record is associated with a data operation that determines how a second process modifies the first entry of the cumulative record to reflect the interaction information contained within the interaction record, the computer to perform the first process; and

the second process to modify the cumulative record in accordance with the data operation to reflect the interaction information contained within the first record, the computer to perform the second process[[,]].

15. (Original) The process of claim 14 wherein the first process identifies the cumulative record utilizing time information included within the interaction information of the interaction record.

16. (Original) The process of claim 14 wherein the first process identifies the cumulative record utilizing data type information included within the interaction information of the interaction record.

17. (Original) The process of the claim 14 wherein the first process identifies the cumulative record utilizing source information identifying a customer interaction

system on which the customer interaction described by the interaction information occurred.

18. (Original) The process of claim 14 wherein the first process constructing a key, utilizing the interaction information, that is mapped to the cumulative record to identifying the cumulative record.

19. (Previously Presented) The process of claim 14 wherein the first process identifies the cumulative record from among a plurality of cumulative records, each of the plurality of cumulative records comprising a row of a result set that includes a plurality of columns, and wherein at least a first column specifying the data operation that determines how the cumulative record, including the entry corresponding to the first column, is modified to reflect the interaction information contained within the interaction record.

20. (Previously Presented) The process of claim 14 wherein the interaction information included within the interaction record comprises a plurality of information items, and the second process modifies the cumulative record by performing the data operation with respect to processed information items included within the cumulative record, the processed information items corresponding to at least one information item included within the interaction record.

21. (Previously Presented) The process of claim 20, wherein the cumulative record comprises a plurality of processed information items, each of the processed information items being assigned to a respective column within a result set constituting a plurality of cumulative records, each of the respective columns of the result set having a respective data operation associated therewith that constitutes part of the second process.

22. (Previously Presented) The process of claim 21, wherein the data operation associated with a respective column comprises any one of a group of the operations including a sum operation, a count operation, a copy operation, and a replace operation.

23. (Original) The process of claim 14 wherein the cumulative record contains interaction information derived from a plurality of records for a predetermined time period.

24. (Original) The process of claim 23 including a third process that stores the cumulative record within a database as part of a summarization record of customer interactions over the predetermined time, the summarization record comprising a plurality of cumulative records.

25. (Currently Amended) The process of claim 14 wherein the interaction information includes any one of a group of information items comprising source, ~~data~~ date, time, call segment, response time, wait time, queue time, hold time and talk time.

26. (Original) The process of claim 14 wherein the customer interaction system comprises any one of a group of systems including an automatic call distributor, an e-mail server, a web server, a computer telephony integration server and an interactive voice response server.

27. (Currently Amended) A machine-readable medium that stores a sequence of instructions that, when executed by a machine, causes the machine to:

receive an interaction record including interaction information describing a customer interaction;

identify a cumulative record to which the first record contributes based upon an information content of the first record, the cumulative record containing a plurality of modifiable entries associated with different data types;

determining how a first entry of a plurality of entries within the cumulative record is to be modified to reflect the interaction information contained within the interaction record based upon a data operation associated with the first entry; and



modify the cumulative record in accordance with the first data operation to reflect the interaction information contained within the information record.

28. (Currently Amended) A system for processing customer interaction records within a customer interaction system, of the system including:

a first means to receive an interaction record including interaction information describing a customer interaction and to identify a cumulative record to which the first record contributes wherein the cumulative record contains a plurality of modifiable entries each related to a different data type and at least a first entry of the cumulative record is associated with a data operation that determines how a second process modifies the first entry of the cumulative record to reflect the interaction information contained within the interaction record; and

the second means to modify the cumulative record in accordance with the data operation to reflect the interaction information contained within the interaction record.